U.S. Census office. 11th census, 1890-
M-M.

DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE.

ROBERT P. PORTER,
Superintendent.
Appointed April 20, 1889; resigned July 31, 1893.

CARROLL D. WRIGHT,
Commissioner of Labor in charge.
Appointed October 5, 1893.

REPORT

ON

VITAL AND SOCIAL STATISTICS

IN

THE UNITED STATES

AT THE

ELEVENTH CENSUS: 1890.

PART II.—VITAL STATISTICS.

CITIES OF 100,000 POPULATION AND UPWARD.

JOHN S. BILLINGS, M. D.,
DEPUTY SURGEON-GENERAL, U. S. ARMY, EXPERT SPECIAL AGENT.

PROPERTY OF
MILBANK MEMORIAL FUND

WASHINGTON, D. C.:
GOVERNMENT PRINTING OFFICE.
1896

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BUFFALO, N. Y.

Buffalo lies at the eastern extremity of Lake Erie, at the head of the Niagara river, latitude 40° 50′ north, longitude 78° 52′ west from Greenwich.

The site of the city rises gradually from the lake front, and at a distance of about 2 miles becomes an undulating plain, with an average elevation of about 50 feet above the surface of Lake Erie.

The city has a water front of about 5 miles, with numerous piers, basins, and canals.

The area of the city on June 1, 1890, was 24,982 acres, and the total population was 255,664, the number of persons to each acre of total area being 10.23. Excluding 971 acres embraced in parks and cemeteries, the average number of persons to an acre was 10.65.

The number of dwellings in the city was 37,290, containing 51,461 families, giving an average of 1.49 dwellings to an acre of total area, 6.86 persons to a dwelling, and 4.97 persons to a family.

The death rates in each ward, in comparison with the average rates for the city, are shown in the ward tables. The number of deaths upon which the rates in relation to age are based includes stillbirths.

The colored population of the city was only 1,169, being located principally in wards 4, 5, and 6. In the other wards the number of this class was too small to give rates of any value.

WARD 1.

The area of this ward was 616 acres. The number of dwellings was 2,266, containing 3,250 families and a total population of 17,125, giving an average of 3.68 dwellings and 27.80 persons to an acre, 7.56 persons to a dwelling and 5.27 persons to a family.

Most of the ward was low and flat, the greater portion being below the 5-foot contour line (the datum line being the mean water level of Lake Erie) and all below the 20-foot level. It was traversed from north to south by Buffalo river and the city ship canal, and contained many docks and shipyards. The Erie canal traversed the ward on its northern boundary, with a branch extending southward through the center of the ward to the Ohio basin and the river. There were large gas works in the eastern part of the ward and 2 railroad depots in the northwest corner.

This ward was a large shipping district. The residents were principally Irish laborers. About 2 squares in the northwestern corner of the ward contained an Italian colony crowded in tenements.

The death rates in this ward, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored. (a)		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	.....	.....	.....
Ward 1	21.38	79.42	13.42	21.31	80.46	7.85	21.50	46.88	21.24	.....	.....	.....

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Pneumonia.	Cancer and tumor.	Heart disease and dropsy.	Diseases of the nervous system.
The city	86.05	233.51	31.29	186.18	159.98	49.67	88.01	213.17
Ward 1	23.36	280.29	46.72	192.70	309.49	58.39	116.79	163.50

a The rates for colored have no significance.

The death rate in this ward was above the city average, especially for the children under 5 years of age. There were but 8 colored persons in the ward. Pneumonia caused about twice the average proportion of deaths, the mortality from this cause being greater here than in any other part of the city.

Typhoid fever, diarrheal diseases, consumption, and heart disease and dropsy also caused more than the average proportion of deaths.

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WARD 2.

The area of this ward was 112 acres. The number of dwellings was 863, containing 1,186 families and a total population of 6,922, giving an average of 7.71 dwellings and 61.80 persons to an acre, 8.02 persons to a dwelling and 5.84 persons to a family.

The surface rose toward the northwest, from about 5 feet above datum line at the southwest corner to 45 feet at the northwest corner, with a very uniform slope.

In the southern and western parts of the ward was a large business section, with many hotels and tenement houses, the latter containing a large proportion of Irish, German, and Italian laborers. North of Swan and east of Ellicott streets was a residence section with a good class of houses and people.

The death rates in this ward, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored. (a)		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	.....	.....	.....
Ward 2	15.23	71.96	11.71	14.10	72.35	9.10	17.99	62.50	17.63	.....	.....	.....

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Pneumonia.	Cancer and tumor.	Heart disease and dropsy.	Diseases of the nervous system.
The city	86.05	233.51	31.29	186.18	159.98	49.67	88.01	213.17
Ward 2	14.45	144.47	14.45	115.57	101.13	28.89	28.89	86.68

a The rates for colored have no significance.

The death rate in this ward was below the city average, but was above it for those 5 years of age and over. There were but 28 colored persons in the ward. No disease caused an excess of mortality above the average.

WARD 3.

The area of this ward was 294 acres. The number of dwellings was 1,921, containing 2,802 families and a total population of 12,922, giving an average of 6.53 dwellings and 43.95 persons to an acre, 6.73 persons to a dwelling and 4.61 persons to a family.

This ward was mostly low, the elevation increasing slightly from south to north, ranging from 5 to 25 feet. Little Buffalo creek ran through the eastern part and discharged into the canal, which, west of Heacock street, formed the southern boundary of the ward. North of Swan and west of Jefferson streets was a good section, occupied by residences of a good class.

The remainder of the ward contained many laborers, chiefly Irish and German.

The death rates in this ward, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored. (a)		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	.....	.....	.....
Ward 3	18.97	81.04	11.53	19.24	82.96	8.72	18.26	35.71	17.98	.....	.....	.....

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Pneumonia.	Heart disease and dropsy.	Diseases of the nervous system.	Scarlet fever.
The city	86.05	233.51	31.29	186.18	159.98	88.01	213.17	10.95
Ward 3	30.95	208.95	23.22	216.68	224.42	116.08	116.08	23.22

a The rates for colored have no significance.

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The death rate in ward 3 was a little below the city average, but was above it for the children under 5 years of age. There were but 5 colored persons in the ward.

Consumption, pneumonia, heart disease and dropsy, and scarlet fever caused more than the average proportion of deaths.

WARD 4.

The area of this ward was 168 acres. The number of dwellings was 1,194, containing 1,851 families and a total population of 8,501, giving an average of 7.11 dwellings and 50.60 persons to an acre, 7.12 persons to a dwelling and 4.59 persons to a family.

This ward was good ground, having a very uniform increase in elevation to the north, and rising from 28 feet at the southeast corner to 60 feet at the northwest corner. South of Chippewa and west of Ellicott streets was a business section, containing some large hotels.

A small section, between Broadway, Clinton, Oak, and Elm streets, contained a number of prostitutes. North of Goodell street was a fine residence section, occupied by wealthy people. The remainder contained a good class of residents, mostly Germans. There was a large market in this ward.

The death rates in this ward, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored.		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	34.22	152.94	24.91
Ward 4	18.43	85.24	12.65	18.73	88.33	9.76	17.81	.....	17.96	35.43	214.29	25.00

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Pneumonia.	Cancer and tumor.	Heart disease and dropsy.	Diseases of the nervous system.
The city	86.05	233.51	31.29	186.18	159.98	49.67	88.01	213.17
Ward 4	47.05	141.16	23.53	247.03	105.87	94.11	105.87	294.08

The death rate in this ward was below the city average, but was above it for the children under 5 years of age.

Consumption, cancer and tumor, heart disease and dropsy, and diseases of the nervous system caused more than the average proportion of deaths.

WARD 5.

The area of this ward was 2,520 acres. The number of dwellings was 6,994, containing 11,367 families and a total population of 55,062, giving an average of 2.78 dwellings and 21.85 persons to an acre, 7.87 persons to a dwelling and 4.84 persons to a family.

This was a large ward of irregular shape, mostly flat, the changes in level ranging from about 10 feet to about 45 feet. Little Buffalo creek traversed the eastern part of the ward, and several other small streams had their origin in this section.

West of Stanton and Raze streets was a residence section, occupied by a good class of Germans, mechanics and laborers. The United States arsenal was in the western part of this section. East of Stanton street and north of the Belt railroad was a large colony of Polish laborers in small frame houses. The remainder of the ward was partly suburban, the residents being largely German, Irish, and Polish mechanics and laborers. It contained a number of fertilizing works, stock yards, and packing houses.

The death rates in this ward, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored.		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	34.22	152.94	24.91
Ward 5	21.50	86.24	8.67	28.82	89.69	5.98	12.20	44.73	11.23	15.09	81.08	9.37

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WARD 5—Continued.

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Pneumonia.	Whooping cough.	Cancer and tumor.	Malarial fever.
The city.....	86.05	233.51	31.29	186.18	159.98	26.99	49.67	9.39
Ward 5.....	156.19	337.80	29.06	130.76	161.64	43.59	45.40	21.79

The death rate in this ward was above the city average, the excessive mortality occurring entirely among the children under 5 years of age.

Diphtheria and croup, malarial fever, and whooping cough caused higher death rates in this ward than in any other ward in the city. Diarrheal diseases and pneumonia also caused more than the average proportion of deaths.

WARD 6.

The area of this ward was 1,596 acres. The number of dwellings was 4,072, containing 6,453 families and a total population of 31,303, giving an average of 2.55 dwellings and 19.61 persons to an acre, 7.69 persons to a dwelling and 4.85 persons to a family.

In this ward, south of Walden avenue, the surface was nearly level, ranging from 30 to 45 feet above the level of the lake. North of Walden avenue the rise was more marked, reaching about 80 feet in the northwestern part.

West of the Belt railroad was a residence section, with a good class of natives, Germans, and Poles, including many mechanics and laborers in frame houses; east of the Belt railroad was a partially suburban section, with the same class of people. Scajaquada creek traversed this section in the northern part. It also contained several cemeteries and an extensive railroad yard.

The death rates in this ward, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored.		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city.....	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	34.22	152.94	24.91
Ward 6.....	20.18	66.41	10.94	22.87	67.70	6.28	16.46	45.75	15.76	50.36	(a)	31.01

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Pneumonia.	Cancer and tumor.	Childbirth and puerperal diseases.	Diseases of the nervous system.
The city.....	86.05	233.51	31.29	186.18	159.98	49.67	13.69	213.17
Ward 6.....	118.20	274.73	15.97	210.84	143.76	54.31	22.36	265.15

a The rate for this class has no significance.

The death rate in this ward was slightly above the city average.

Diphtheria and croup, diarrheal diseases, consumption, cancer and tumor, childbirth and puerperal diseases, and diseases of the nervous system caused more than the average proportion of deaths.

WARD 7.

The area of this ward was 2,464 acres. The number of dwellings was 6,549, containing 8,737 families and a total population of 42,112, giving an average of 2.66 dwellings and 17.09 persons to an acre, 6.43 persons to a dwelling and 4.82 persons to a family.

In this ward, south of the driving park and west of the parade, was the highest ground in the city, reaching an elevation of 108 feet at about the center of this section. Scajaquada creek, joined by another stream in the eastern part, traversed the ward from east to west, north of the center. This creek was also joined by another small stream near the western boundary of the ward. North of Scajaquada creek the ground had a uniform rise from about 50 to 90 feet at a point near the center of the northern boundary.

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West of Michigan street was a small section of fine residences, occupied by a wealthy class of natives, Germans, and English people. The remainder of ward 7 had a good class of people, chiefly Germans, in moderate circumstances, largely owning their homes. East of the Belt railroad was sparsely settled and suburban in character.

Several parks and cemeteries, including the potter's field, were in this ward. The general hospital was also in this ward.

The death rates in this ward, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored. (a)		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	.....	.....	.....
Ward 7	19.79	60.79	13.04	19.36	61.83	8.63	20.68	24.39	20.64	.....	.....	.....

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Pneumonia.	Whooping cough.	Cancer and tumor.	Diseases of the urinary system.
The city	86.05	233.51	31.29	186.18	159.98	26.99	49.67	48.89
Ward 7	106.86	197.09	47.49	242.21	147.23	28.50	54.62	68.86

a The rates for colored have no significance.

The death rate in this ward was about the city average, but was below it for the white children under 5 years of age. The total colored population was but 60.

Diphtheria and croup, typhoid fever, consumption, cancer and tumor, and diseases of the urinary system caused more than the average proportion of deaths.

WARD 8.

The area of this ward was 580 acres. The number of dwellings was 1,154, containing 1,917 families and a total population of 9,848, giving an average of 1.99 dwellings and 16.98 persons to an acre, 8.53 persons to a dwelling and 5.14 persons to a family.

This ward was a shipping, business, and manufacturing district. The surface was mostly below the 5-foot level, and nowhere much above it. It lay along, and parallel to, the lake front, and was traversed from end to end by the canal. In the southern end were many docks, wharves, and warehouses. There was a small section, between Erie and Commercial streets, peopled by a very low class, including many prostitutes.

The residents of this ward were chiefly a poor class of Irish, with a few Italians.

The gas works and the Erie county workhouse were in this ward.

The death rates in this ward, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored. (a)		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	.....	.....	.....
Ward 8	21.56	88.13	13.37	24.09	93.69	10.74	17.43	31.25	17.06	.....	.....	.....

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Pneumonia.	Cancer and tumor.	Heart disease and dropsy.	Diseases of the nervous system.
The city	86.05	233.51	31.29	186.18	159.98	49.67	88.01	213.17
Ward 8	81.23	213.24	20.31	233.55	101.54	40.62	172.62	192.93

a The rates for colored have no significance.

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The death rate in ward 8 was above the city average, especially for the white children under 5 years of age. The total colored population was only 17.

Consumption and heart disease and dropsy caused more than the average proportion of deaths.

WARD 9.

The area of this ward was 224 acres. The number of dwellings was 1,260, containing 1,557 families and a total population of 8,233, giving an average of 5.63 dwellings and 36.75 persons to an acre, 6.53 persons to a dwelling and 5.29 persons to a family.

This ward was good ground, the surface rising toward the north and east, from about 15 feet to 63 feet in the northeast corner.

The eastern part of the ward was a business section. Here was located the city and county hall.

The residents were of a good class, and included many Irish and English.

The death rates in this ward, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored. (a)		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	.....	.....	.....
Ward 9	13.16	85.42	8.67	14.55	88.36	8.26	9.59	.....	9.65	.....	.....	.....

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Pneumonia.	Whooping cough.	Heart disease and dropsy.	Diseases of the nervous system.
The city	86.05	233.51	31.29	186.18	150.98	26.99	88.01	213.17
Ward 9	12.15	72.88	36.44	109.32	109.32	36.44	121.46	109.32

a The rates for colored have no significance.

The death rate in this ward was lower than in any other ward in the city, and was less than half the death rate of ward 12, but was above the average among the white children under 5 years of age, of whom, however, there were but 480. The total colored population was 26. Typhoid fever, whooping cough, and heart disease and dropsy caused more than the average proportion of deaths.

WARD 10.

The area of this ward was 392 acres. The number of dwellings was 2,445, containing 2,701 families and a total population of 14,340, giving an average of 6.24 dwellings and 36.58 persons to an acre, 5.87 persons to a dwelling and 5.31 persons to a family.

This ward covered the best residence section of the city. The ground was good, with a uniform rise in surface toward the northeast, the elevations ranging from 25 feet to 92 feet at the highest point. Several small parks and cemeteries were in this ward, also a medical college, a female academy, and the county armory.

The death rates in this ward, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored. (a)		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	.....	.....	.....
Ward 10	18.98	125.71	12.01	20.54	127.78	11.48	13.84	45.45	13.63	.....	.....	.....

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Scarlet fever.	Pneumonia.	Cancer and tumor.	Heart disease and dropsy
The city	86.05	233.51	31.29	186.18	10.95	159.98	49.67	88.01
Ward 10	34.87	104.60	41.84	153.42	34.87	104.60	62.76	132.50

a The rates for colored have no significance.

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The death rate in ward 10 was somewhat below the city average, but was above it for the children under 5 years of age. The total colored population was 62, of whom but one was under 5 years of age. Scarlet fever caused a heavier death rate in this ward than in any other ward in the city.

Typhoid fever, cancer and tumor, and heart disease and dropsy caused more than the average proportion of deaths.

WARD 11.

The area of this ward was 2,296 acres. The number of dwellings was 5,501, containing 6,184 families and a total population of 30,304, giving an average of 2.40 dwellings and 13.20 persons to an acre, 5.51 persons to a dwelling and 4.90 persons to a family.

This was a large ward, fronting on Niagara river and including Squaw island lying therein. The central portion of the ward was all well above the 20-foot contour line, and the banks of the river and of Scajaquada creek, which formed, in part, the northern boundary, were generally well elevated. The range of elevation was from water level to 96 feet above, in the southeastern corner.

East of Richmond avenue was a fine residence section, inhabited by wealthy people. The remainder was well built up and occupied by people of moderate means.

One large and several small parks, a large cemetery, waterworks, the state insane asylum, and Fort Porter were in this ward.

The death rates in this ward, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored. (a)		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	.....	.....	.....
Ward 11	16.17	62.44	10.75	16.43	64.86	8.63	15.52	13.42	15.56	.....	.....	.....

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Pneumonia.	Cancer and tumor.	Heart disease and dropsy.	Diseases of the nervous system.
The city	86.05	233.51	31.29	186.18	159.98	49.67	88.01	213.17
Ward 11	52.80	181.49	36.30	115.50	145.20	42.90	75.90	244.19

a The rates for colored have no significance.

The death rate in this ward was below the city average, especially among the children under 5 years of age. The total colored population was 68.

Typhoid fever and diseases of the nervous system caused more than the average proportion of deaths.

WARD 12.

The area of this ward was 8,120 acres. The number of dwellings was 1,715, containing 1,867 families and a total population of 10,851, giving an average of 0.21 dwellings and 1.34 persons to an acre, 6.33 persons to a dwelling and 5.81 persons to a family.

This was a large ward on the northern outskirts of the city bordering on Niagara river and north of Scajaquada creek and Delavan avenue, largely suburban in character and having a very diversified surface.

The ward was traversed from about the center westward by Cornelius creek, the lowest land following the course of this creek. East of Delavan avenue the changes in level were more abrupt, the greatest elevation being about 107 feet.

The residents were generally of a good class, principally natives and Germans, with some Irish laborers. There were numerous manufacturing establishments, including iron furnaces, rolling mills, and flour mills.

A large park, several small cemeteries, and the Erie county poorhouse were in this ward.

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The death rates in ward 12, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored. (a)		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	.....	.....	.....
Ward 12	30.57	71.90	24.62	26.24	74.30	15.16	38.17	28.17	38.35	.....	.....	.....

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Pneumonia.	Cancer and tumor.	Heart disease and dropsy.	Diseases of the nervous system.
The city	86.05	233.51	31.29	186.18	159.98	49.67	88.01	213.17
Ward 12	64.51	258.04	18.43	423.92	221.18	82.94	193.53	423.92

a The rates for colored have no significance.

The death rate in this ward was much above the city average, being higher than in any other ward in the city, but it was below the average for the white children under 5 years of age. The total colored population was 23. Consumption caused a heavier death rate in this ward than in any other ward in the city. Diarrheal diseases, pneumonia, cancer and tumor, heart disease and dropsy, and diseases of the nervous system also caused more than the average proportion of deaths.

WARD 13.

The area of this ward was 5,600 acres. The number of dwellings was 1,356, containing 1,589 families and a total population of 8,141, giving an average of 0.24 dwellings and 1.45 persons to an acre, 6.00 persons to a dwelling and 5.12 persons to a family.

This ward was on the southern outskirts of the city. South of Buffalo river it was low, flat, and rural in character. The ward was almost wholly below the 20-foot contour line and with slight changes in level. Buffalo river and several small creeks traversed it from east to west. It was sparsely settled, the people being of mixed nationalities, Irish predominating, and including many mechanics, laborers, and gardeners.

Large iron works, an oil refinery, several factories, railroad shops, and lumber yards were located in this ward.

The death rates in this ward, compared with the average rates for the city, were as follows:

AREAS.	DEATH RATES PER 1,000 POPULATION.											
	Total white.			Native white.			Foreign white.			Colored. (a)		
	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.	All ages.	Under 5 years.	5 years and over.
The city	19.83	74.86	11.68	21.33	76.93	8.43	17.06	36.95	16.68	.....	.....	.....
Ward 13	16.37	58.33	9.22	16.68	59.79	5.87	15.61	.....	15.81	.....	.....	.....

AREAS.	DEATH RATES PER 100,000 POPULATION DUE TO—							
	Diphtheria and croup.	Diarrheal diseases.	Typhoid fever.	Consumption.	Pneumonia.	Cancer and tumor.	Heart disease and dropsy.	Diseases of the nervous system.
The city	86.05	233.51	31.29	186.18	159.98	49.67	88.01	213.17
Ward 13	24.57	245.67	12.28	135.12	159.69	36.85	85.98	135.12

a The rates for colored have no significance.

The death rate in this ward was below the city average, especially for the children under 5 years of age. Diarrheal diseases caused more than the average proportion of deaths.

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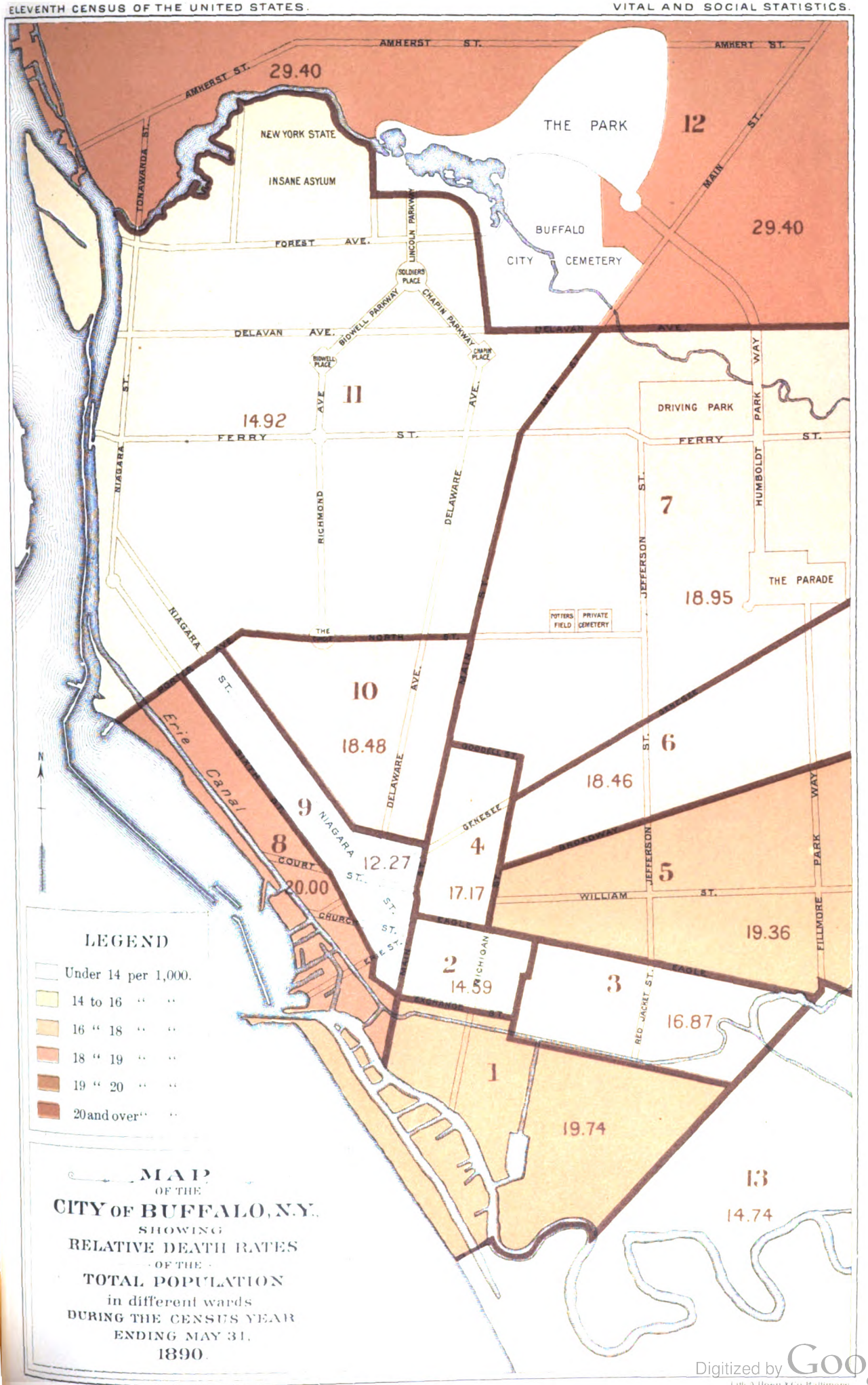

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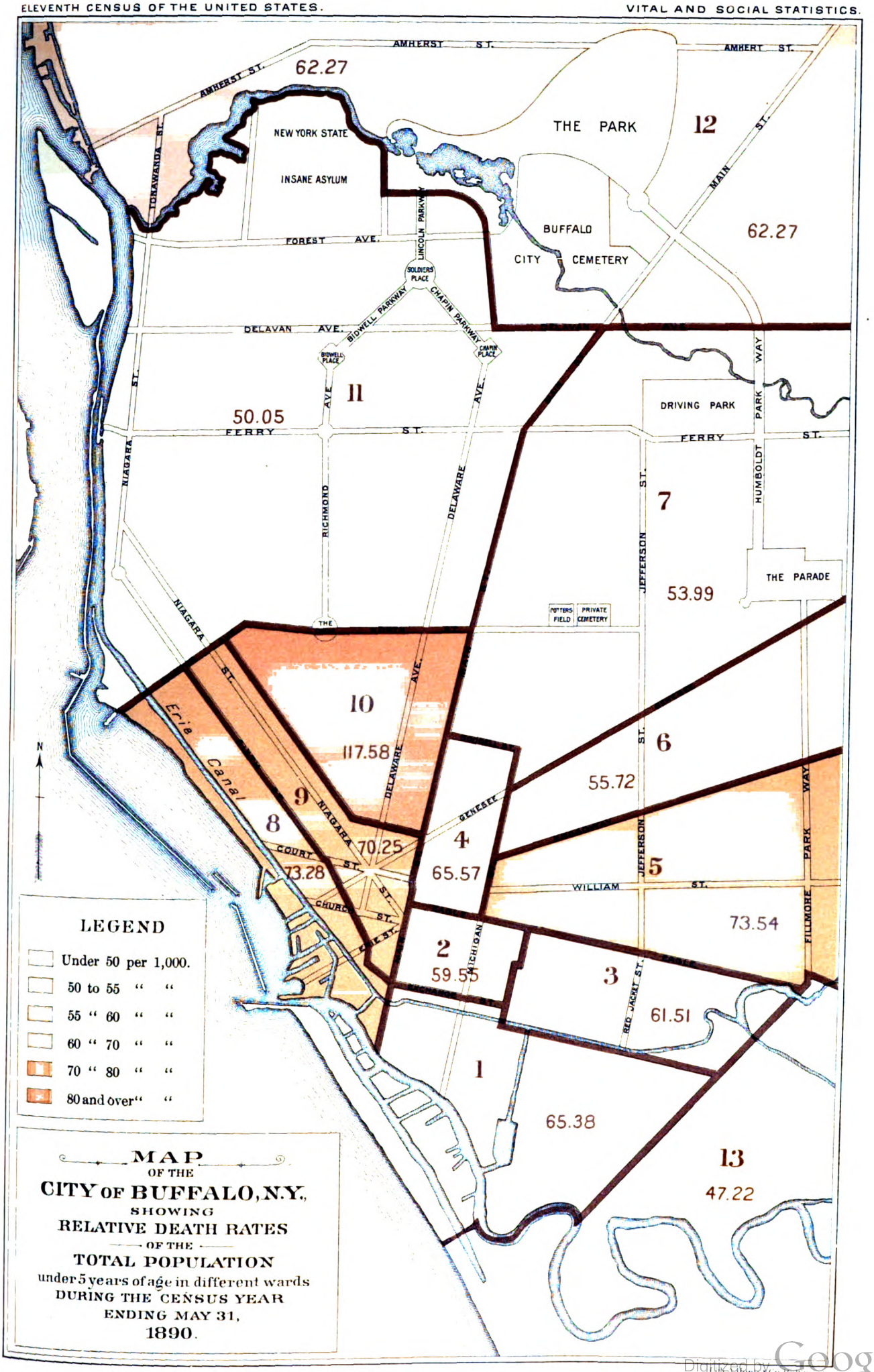
Lith. A. Hoen & Co. Baltimore



LEGEND

- Under 50 per 1,000.
- 50 to 55 " "
- 55 " 60 " "
- 60 " 70 " "
- 70 " 80 " "
- 80 and over" "

MAP
OF THE
CITY OF BUFFALO, N.Y.,
SHOWING
RELATIVE DEATH RATES
OF THE
TOTAL POPULATION
under 5 years of age in different wards
DURING THE CENSUS YEAR
ENDING MAY 31,
1890.

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